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The CHAIMS compiler generates a variety of invocation sequences for current and developing standards for software interoperation, with a focus on multi-computer, distributed operation. The language includes the ability to set up module interfaces prior to executions, request performance estimates from modules prior to their invocation, schedule modules in parallel, monitor execution of invoked modules, interrupt inadequately performing modules, and provide data and meta-information to customer interface modules.

CHAIMS supports a paradigm shift that is already occurring: a move from coding as the focus of programming to a focus on composition. This shift is occurring invisibly to many enterprises, since there is no clear boundary in moving from subroutine usage to remote service invocation. There are hence few other tools and inadequate education to deal with this change.

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